

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 • www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,087	03/16/2004	Ching-Yu Chang	2003-1435 / 24061.911	4048
42717 7590 11/15/2007 HAYNES AND BOONE, LLP			EXAMINER	
901 Main Street			EL ARINI, ZEINAB	
Suite 3100 Dallas, TX 75202			ART UNIT	PAPER NUMBER
Danas, 17. 752	.02	,	1792	
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/802,087	CHANG ET AL.				
		Examiner	Art Unit				
		Zeinab E. EL-Arini	1792				
The M. Period for Reply	AILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Respor	sive to communication(s) filed on <u>05 Se</u>	eptember 2007.					
	s action is FINAL . 2b) This action is non-final.						
3) Since the	e this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of C	laims						
4)⊠ Claim(s	s) <u>1-27</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s	s) is/are allowed.						
6)⊠ Claim(s	6)⊠ Claim(s) <u>1-27</u> is/are rejected.						
7) Claim(s	7) Claim(s) is/are objected to.						
8) Claim(s	s) are subject to restriction and/or	election requirement.					
Application Paper	ers						
9)□ The spe	cification is objected to by the Examiner						
10) ☐ The dra	wing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35	5 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Coo the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Dis	closure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa					
Paper No(s)/Mail Date 6)							



Art Unit: 1792

DETAILED ACTION

Applicants' remarks filed on 9/5/07 has been acknowledged and entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete because positive step for cleaning the lens has not been recited. It is suggested that a cleaning step be added to claim 1. The suggested cleaning step read "and cleaning the objective lens using the first fluid containing surfactant".

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

10/802,087 Art Unit: 1792

be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claim 1 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 8 of copending Application No. 11/251,330. Although the conflicting claims are not identical, they are not patentably distinct from each other because the process and system in both applications are functionally equivalent. This is also because claim 1 does not include any cleaning step, therefore it is obvious from claims 1 and 8 of the co-pending application, and the process in both applications is functionally equivalent

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claims 1-3 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, and 8 of copending Application No. 11/384,624. Although the conflicting claims are not identical, they are not patentably distinct from each other because the process as claimed in claims 1-3 is obvious from claims 1-2 and 8 of the co-pending application. This is also because claim 1 does not include any cleaning step, and the process in both applications is functionally equivalent. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Application/Control Number:

10/802,087 Art Unit: 1792 Page 4

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Hazelton et al. (2006/0023185) in combination with Van Slyke (5,788,781).

Re. claims 1-27, Hazelton et al. teach a system of cleaning a wafer in an ILS apparatus with a cleaning liquid which has an affinity for the material absorbed on the wafer, which can be dirt and water. See the abstract, paragraphs 27, 29, 31-38 and 40, 44-51. With respect to the system (claims 15-19), see Figs. 1 and 10.

Hazelton et al. do not teach the surfactant, and means for providing surfactant, and the second fluid comprises NH4OH, and H2O2.

Van Slyke discloses a method for cleaning an oil-coated substrate.

Surfactants are known in cleaning liquids to enhance the cleaning liquids affinity for such things as dirt and water (see col. 3, lines 7-14).

It would have been obvious to one skilled in the art to replace the ethanol of Hazelton et al. with the surfactant of the Van Slyke, because both ethanol and surfactant have strong affinity to water. This is because Hazelton et al. disclose that the cleaning device may contain ethanol because ethanol has strong affinity to water, and cleaning liquid may be used provided it has a sufficiently strong affinity to the liquid to be removed, see paragraph 35. Furthermore, since the means for applying the surfactant reads on any applicator in the ILS. Therefore, the claimed apparatus can be any typical ILS, as surfactant application is an intended use. Re. claims 23-24, and 26, it is well known in the art to use NH4OH, H2O2, and ozone in cleaning optical element.

10/802,087 Art Unit: 1792

Response to Arguments

- 9. Applicant's arguments with respect to claims 1-27 are unpersuasive. With respect to the 112 rejections, applicants' argument is unpersuasive, because claim 1 does not recite any positive cleaning step for the lens. With respect to double patenting rejections, applicants' argument is unpersuasive, because the process as claimed in this application (claims 1-3) does not include any positive cleaning step.
- 10. With respect to Hazelton et al. is not prior art, because the filing date of Hazelton is after March 16, 2004 filing date of the present application. Applicants' argument is unpersuasive, because the priority date for Hazelton et al. is April 11, 2003 and June 27, 2003. See a copy of the 60/462,556 (pages 1-2), and 11/237,651 (2006/0023185) which is a continuation of PCT/US 2004/010309), see paragraphs 3-4, 9-10, and 34-35.
- 11. With respect to the nonanalogous art, applicants' argument is unpersuasive, because Hazelton et al. disclose that the cleaning device may contain ethanol because ethanol has strong affinity to water, and cleaning liquid may be used provided it has a sufficiently strong affinity to the liquid to be removed, see paragraph 35.

Conclusion

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

10/802,087

Art Unit: 1792

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/802,087

Art Unit: 1792

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zeinab Elauni Zeinab E. EL-Arini Primary Examiner Art Unit 1792

ZEE 11/12/07